## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26058

A. CLASSIFICATION OF SUBJECT MATTER  DCCD - COSY 3/00 3/04 3/34 3/40 5/00 5/10 5/20 - E16L 58/00 C23E 11/00			
IPC(7) : CO8K 3/00, 3/04, 3/34, 3/40, 5/09, 5/10, 5/20,; F16L 58/00; C23F 11/00 US CL : 252/388; 428/35.7, 36.9; 524/186, 191, 284, 315, 425, 449, 462, 494, 495, 497, 500			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 252/388; 428/35.7, 36.9; 524/186, 191, 284, 315, 425, 449, 462, 494, 495, 497, 500			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
х	US 4,785,057 A (SHIIKI et al) 15 November 1988(15.11.1988), abstract; col. 15, lines 38-69; col. 16, lines 1-9, 24-29; col. 17, lines 25 through col. 18, lines 1-4; col. 20, lines 38-36, 40, 43, 77 and 78-66.		
x	US 5,177,137 A (KAWASHIMA et al) 05 January 1993 (05.01.1993), abstract; col. 2, lines 1-23, 31, 34, 35 and 40 18-49; col. 4, lines 4-65; col. 6, lines 59-68; col. 7, lines 1-42.		
х	US 5,401,799 A (KOHLHEPP et al) 28 March 1995 (28.03.1995), abstract; col. 1, lines 1-8, 13-24, 26, 35, 36 and 40		
Y	US 5,511,619 A(JACKSON) 30April 1996 (30.04.1996), abstract; col. 1, lines 10-20, 38- 56; eol. 3, lines 22-35		
x	US 5,889,102 A (HAACK et al) 30 March 1999 (30.03.1999), abstract; col. 1, lines 10-68; col. 2, lines 1-7.		1-6 and 18-26
X US 5,900,453 A (EGAMI et al) 04 May 1999 (04.05 col. 5, lines 52-65; col. 6, lines 59-67; col. 9, lines 3			1-7, 9-11, 18, 20 and 22-23
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Further	Further documents are listed in the continuation of Box C. See patent family annex.		
Special categories of cited documents:		"T" later document published after the inte	
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
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princips date claimed		"&" document member of the same patent family	
	ctual completion of the international search	Date of mailing of the international sear	22 APR 2004
22 Water 2004 (12:05:2004)		Authorized officer	
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